

**Notice of Allowability**

Application No.

10/032,475

Applicant(s)

DANJO, HIROSHI

Examiner

Joseph D. Anthony

Art Unit

1714

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 04/23/04.
2. ☒ The allowed claim(s) is/are 1-2, 4-5, 7-9 [renumbered as 1-2, 3-4, 5-7].
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

Joseph D. Anthony  
Primary Examiner  
Art Unit: 1714

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### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eugene T. Perez on 05/12/04.

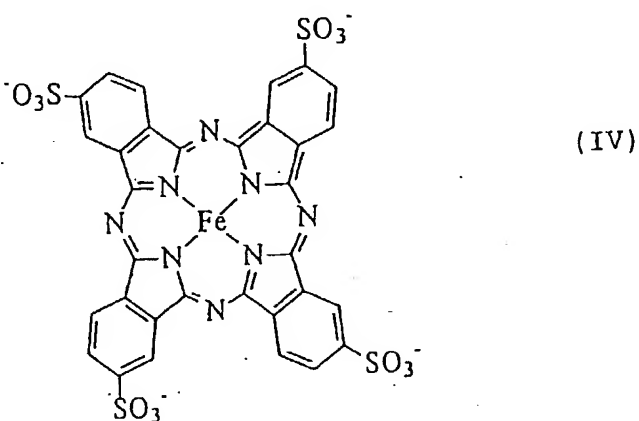
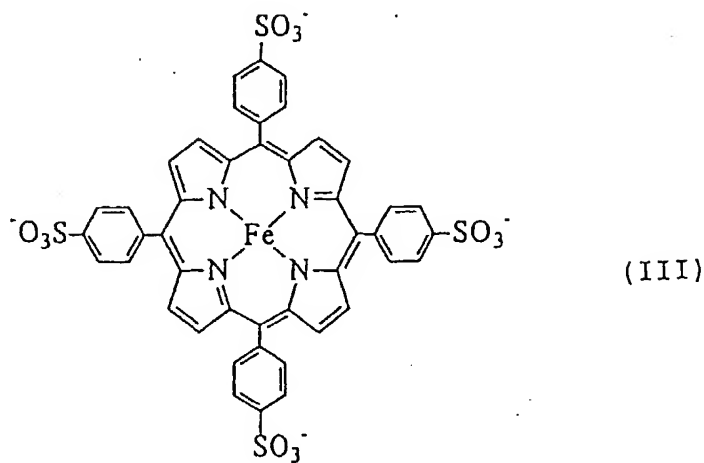
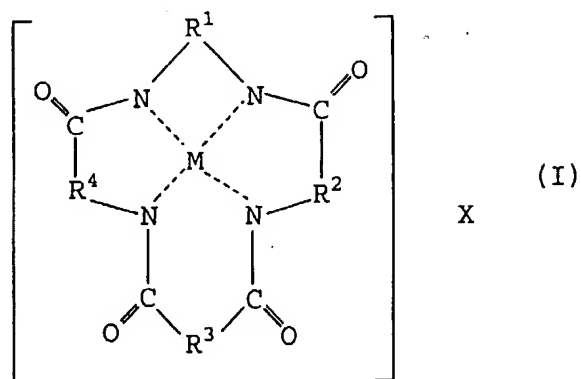
The application has been amended as follows:

Claim 1 (twice amended) A bleaching formulation comprising the components of:

(a) a peroxy bleaching agent selected from the group consisting of hydrogen peroxide, organic peroxide and an organic peracid, wherein the organic peroxide and the organic peracid are capable of generating hydrogen peroxide in an aqueous solution;

(b) an anionic bleaching activator comprising a metal; and

(c ) a cationic compound that is an amino compound salt or a quaternized amino compound salt; with the proviso that component (b) is a complex selected from the group consisting of formulae (I), (III) and (IV):



wherein  $\text{R}^1$  represents one of a straight-chain alkylene or alkenylene group having 2 to 8 carbon atoms, a cycloalkylene or

cycloalkenylene group having 3 to 8 carbon atoms or a phenylene group; R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> each independently represent one of a methylene group, a straight-chain alkylene or alkenylene group having 2 to 8 carbon atoms, a cycloalkylene or cycloalkenylene group having 3 to 8 carbon atoms or a phenylene group; R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> may each have a substituent(s) which is an alkyl, alkenyl, alkynyl, alkoxy or halogenated alkyl group having up to 8 carbon atoms, a cycloalkyl or cycloalkenyl group having 3 to 8 carbon atoms, an aryl group, an aryl group having a straight-chain alkyl group having 1 to 18 carbon atoms, a hydroxyl group, a phenoxy group, a halogen atom, an amino group, a sulfuric acid radical, a sulfo group, a nitro group, or a carboxyl group; M represents a metal which is a transition metal having a I, II, III, IV, V, VI, VII or VIII-valent oxidized state; and X represents a counter ion in equilibrium with the compound's charges on a stoichiometric basis.

Claims 3 and 10 have been canceled.

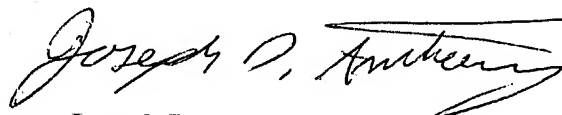
2. The following is an examiner's statement of reasons for allowance: Independent claim 1 is amended above to incorporate the subject matter of now canceled dependent claim 3. This was done to more closely conform the scope of independent claim 1 with

applicant's showing of unexpected and superior bleaching results for such compositions as compared to those of the closest prior-art, see pages 13-16 of applicant's specification. Claim 10 is being canceled since it is dependent on canceled claim 6.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Examiner Information**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Joseph D. Anthony whose telephone number is (571) 272-1117. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on (571) 272-1119. The centralized FAX machine number is (703) 872-9306. All other papers received by FAX will be treated as Official communications and cannot be immediately handled by the Examiner.



Joseph D. Anthony  
Primary Patent Examiner  
Art Unit 1714

5/16/04